Inclusion criteria

- 1. Age between 16 24 years old (inclusive)
- 2. Type 1 diabetes, as defined by WHO for at least 1 year or is confirmed C-peptide negative
- 3. HbA1c 7.5 14.0% based on analysis from local laboratory or equivalent within 1 months of enrolment
- 4. Treated with insulin pump or MDI
- 5. Has a Smart phone compatible with Dexcom G6
- 6. Willingness to wear study devices
- 7. Willing to follow study specific instructions
- 8. Literate in English

Exclusion criteria

- 1. Non-type 1 diabetes mellitus including those secondary to chronic disease
- 2. Any other physical or psychological disease likely to interfere with the normal conduct of the study
- 3. Untreated celiac disease or hypothyroidism
- 4. Current or planned users of real-time or flash (Libre) glucose monitoring sensors
- 5. Current treatment with drugs known to interfere with glucose metabolism, e.g. systemic corticosteroids, Metformin, SGLT2 inhibitors, GLP-1 agonists, non-selective beta-blockers and MAO inhibitors etc.
- 6. Regular use of acetaminophen
- 7. Medically documented allergy towards the adhesive (glue) of plasters or unable to tolerate tape adhesive in the area of sensor placement
- 8. Serious skin diseases (e.g. psoriasis vulgaris, bacterial skin diseases) located at places of the body, which could potentially be used for localisation of the glucose sensor)
- 9. Lack of reliable telephone facility for contact
- 10. Known or suspected allergy against insulin
- 11. Severe visual impairment
- 12. Severe hearing impairment
- 13. Subject not proficient in English